

SEQUENCE LISTING

<110> SUNTORY LIMITED

<120> Inhibitor and Activator of Coupling Factor-6 and Antigen thereto

<130> YCT-515

<140> PCT/JP00/5210

<141> 2000-08-03

<150> JPA 264687/99

<151> 1999-09-17

<160> 24

<210> 1

<211> 76

<212> PRT

<213> Human

<400> 1

Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu

1 5 10

Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser

15 20

Lys Arg Gln Thr Ser Gly Gly Pro Val Asp

25 30

Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu

35 40

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe

45 50

Gly Asn Ala Asp Met Asn Thr Phe Pro Thr

	55	60
Phe Lys Phe Glu Asp Pro Lys Phe Glu Val		
	65	70
Leu Glu Lys Pro Gln Ala		
	75	
<210>	2	
<211>	76	
<212>	PRT	
,<213>	Rat	
<400>	2	
Asn Lys Glu Leu Asp Pro Val Gln Lys Leu		
1	5	10
Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala		
	15	20
Lys Arg Leu Ala Ser Gly Gly Pro Val Asp		
	25	30
Thr Gly Pro Glu Tyr Gln Gln Glu Val Asp		
	35	40
Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr		
	45	50
Gly Lys Gly Glu Met Asp Lys Phe Pro Thr		
	55	60
Phe Asn Phe Glu Asp Pro Lys Phe Glu Val		
	65	70
Leu Asp Lys Pro Gln Ser		
	75	

<210> 3
<211> 5
<212> PRT
<213> Unknown
<220>
<221>
<222>
<223> Enterokinase recognition site
<400> 3

Asp Asp Asp Asp Lys

<210> 4
<211> 139
<212> PRT
<213> E. coli
<400> 4

Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp

1 5 10 15

Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

20 25 30

Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser

35 40 45

Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe Pro

50 55 60

Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Glu Ser Asp Leu Pro Glu

65 70 75 80

Ala Asp Thr Val Val Val Pro Ser Asn Trp Gln Met His Gly Tyr Asp

85 90 95

Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro Pro
100 105 110

Phe Val Pro Thr Glu Asn Pro Thr Gly Ser Tyr Ser Leu Thr Phe Asn
115 120 125

Val Asp Glu Ser Trp Leu Gln Glu Gly Gln Thr
130 135

<210> 5
<211> 97
<212> PRT
<213> E. coli
<400> 5

Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
1 5 10 15

Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro
20 25 30

Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp Arg Pro Ser
35 40 45

Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe Pro
50 55 60

Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp Ser Asp Leu Pro Glu
65 70 75 80

Ala Asp Thr Val Val Val Pro Ser Asn Trp Gln Met His Gly Tyr Asp
85 90 95

Ala

<210> 6
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>
<223> Primer used in PCR method
<400> 6

atgactgttc agaggatctt cag

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>
<223> Primer used in PCR method
<400> 7

gtcgactcag gactgggtt tgcgag

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<221>

<222>

<223> Primer used in PCR method

<400> 8

atgattcttc agaggcttt cag

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Primer used in PCR method

<400> 9

gtcgactcag gcctgggtt tttcgatg

<210> 10

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Gene coding for enterokinase recognition site and Eco RI recognition site

<400> 10

gaattcgcacg atgacgataa gaataaggaa cttgatcctg tacag

<210> 11

<211> 46
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>
<223> Gene coding for enterokinase recognition site and Eco RI recognition site
<400> 11
gaattcgcacg atgacgataa gaataaggaa cttgatccta tacaga

<210> 12
<211> 20
<212> PRT
<213> rat
<400> 12

Cys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu

1 5 10 15

Asp Lys Pro Gln Ser

20

<210> 13
<211> 20
<212> PRT
<213> rat
<400> 13

Tyr Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu

1 5 10 15

Asp Lys Pro Gln Ser

20

<210> 14

<211> 19

<212> PRT

<213> human

<400> 14

Cys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln

1

5

10

15

Thr Ser Gly Gly

<210> 15

<211> 18

<212> PRT

<213> human

<400> 15

Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr

1

5

10

15

Ser Gly Gly

<210> 16

<211> 39

<212> PRT

<213> rat

<400> 16

Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile

1

5

10

15

Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp

20

25

30

Thr Gly Pro Glu Tyr Gln Gln Glu Val

35

<210> 17

<211> 16

<212> PRT

<213> rat

<400> 17

Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu

1

5

10

15

Met

<210> 18

<211> 9

<212> PRT

<213> rat

<400> 18

Asp Lys Phe Pro Thr Phe Asn Phe Glu

1

5

<210> 19

<211> 7

<212> PRT

<213> rat

<400> 19

Asp Pro Lys Phe Glu Val Leu

1

5

<210> 20

<211> 5

<212> PRT

<213> rat

<400> 20

Asp Lys Pro Gln Ser

1 5

<210> 21

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<221>

<222>

<223> Factor Xa recognition site

<400> 21

Ile Glu Gly Lys

<210> 22

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Primer for PCR method

<400> 22

gatcgagggacgtataaggaaacttgcct

—
<210> 23

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Primer for PCR method

<400> 23

gtcgacttaggactggggtttgtcga

—
<210> 24

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221>

<222>

<223> Factor Xa recognition site containig peptide

<400> 24

Glu Phe Gly Leu Ile Glu Gly Lys

<10> Asinal, Fumihiko
Magota, Koji
<120> Inhibitor and Activator of Coupling Factor-6 and Antigen thereto
<130> 46220
<140> US 09/831, 951
<141> 2001-05-16
<151> JPA 264687/99
<151> 1999-09-17
<161> 24

<211> 1
<211> 76
<212> PRT
<213> Human
<400> 1
Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu
1 5 10
Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser
15 20
Lys Arg Gln Thr Ser Gly Gly Pro Val Asp
25 30
Ala Ser Ser Glu Tyr Gln Gln Glu Leu Gln
35 40
Arg Glu Leu Phe Lys Leu Lys Gln Met Phe
45 50
Tyr Asn Ala Asp Met Asn Thr Phe Pro Thr
55 60
Phe Lys Phe Glu Asp Pro Lys Phe Glu Val
65 70
Leu Asp Lys Pro Gln Ala
75

<211> 2
<211> 76
<212> PRT
<213> Rat
<400> 2
Asn Lys Glu Leu Asp Pro Val Gln Lys Leu
1 5 10
Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala
15 20
Iys Arg Leu Ala Ser Gly Gly Pro Val Asp
25 30
Thr Tyr Pro Glu Tyr Gln Gln Glu Val Asp
35 40
Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr
45 50
Gly Lys Gly Glu Met Asp Lys Phe Pro Thr
55 60
Phe Asn Phe Glu Asp Pro Lys Phe Glu Val
65 70
Leu Asp Lys Pro Gln Ser
75

<210> 3
<211> 5
<212> PRT
<213> Unknown

<221>

<222>

<223> Enterokinase recognition site

<400> 3

Asp Asp Asp Asp Lys

<210> 4

<211> 139

<212> PRT

<213> E. coli

<400> 4

Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
1 5 10 15
Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
20 25 30
Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
35 40 45
Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
50 55 60
Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Gln
65 70 75
Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
80 85 90
Gln Met His Gly Tyr Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr
95 100 105
Pro Ile Thr Val Asn Pro Pro Phe Val Pro Thr Glu Asn Pro Thr
110 115 120
Gly Ser Tyr Ser Leu Thr Phe Asn Val Asp Glu Ser Trp Leu Gln
125 130 135
Glu Gly Gln Thr

<210> 5

<211> 97

<212> PRT

<213> E. coli

<400> 5

Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
1 5 10 15
Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
20 25 30
Pro Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp
35 40 45
Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
50 55 60
Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp
65 70 75
Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
80 85 90
Gln Met His Gly Tyr Asp Ala
95

<210> 6

<211> 23

<212> DNA

<213> Artificial Sequence

<222>

<221>

• 222
• 222: Primer used in PCR method
• 222: 6
• 222: atgttttc agaggatett cag

• 223
• 223: 27
• 223: DNA
• 223: Artificial Sequence
• 223:
• 223:
• 223: Primer used in PCR method
• 223:
• 223: gtgtttttttt gactggggtt ttgcgag

• 224
• 224: 23
• 224: DNA
• 224: Artificial Sequence
• 224:
• 224:
• 224:
• 224: Primer used in PCR method
• 224: 7
• 224: atgttttttc agaggctttt cag

• 225
• 225: 28
• 225: DNA
• 225: Artificial Sequence
• 225:
• 225:
• 225:
• 225: Primer used in PCR method
• 225: 9
• 225: gtgtttttttt gactggggtt ttgcgatg

• 226
• 226: 10
• 226: 45
• 226: DNA
• 226: Artificial Sequence
• 226:
• 226:
• 226:
• 226: Gene coding for enterokinase recognition site and Eco RI recognition
site
• 226: 10
• 226: gtattt cga : g atgacgataa gaataaggaa cttgatcctg tacag

• 227
• 227: 11
• 227: 46
• 227: DNA
• 227: Artificial Sequence
• 227:
• 227:

<2>
<2> gene coding for enterokinase recognition site and Eco RI recognition
site
<4> 11
gaatccggacg atgacgataa gaataaggaa ctgtatctta tacaga

<2> 12
<2> 10
<2> PFT
<2> rat
<4> 12
Lys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
1 5 10 15
Asp Lys Pro Gln Ser
20

<2> 13
<2> 2
<2> PFT
<2> rat
<4> 13
Tyr Ile Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
1 5 10 15
Asp Lys Pro Gln Ser
20

<2> 14
<2> 1
<2> PFT
<2> human
<4> 14
Tys Ieu Ile Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln
1 5 10 15
Ile Ser Ily Gly

<2> 1
<2> 1
<2> PFT
<2> human
<4> 1
Ieu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
1 5 10 15
Ile Ser Ily Gly

<2> 16
<2> 34
<2> PFT
<2> rat
<4> 16
Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile
1 5 10 15
Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
20 25 30
Thr Gly Pro Glu Tyr Gln Gln Glu Val
35

• 210: 17
• 211: 16
• 212: PRT
• 213: rat
• 40: 17
Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu
| 5 10 15
Ser

• 214: 18
• 215: 9
• 216: PPT
• 217: rat
• 40: 18
Asp Lys Phe Pro Thr Phe Asn Phe Glu
| 5

• 218: 18
• 219: 7
• 220: PPT
• 221: rat
• 40: 18
Asp Pro Lys Phe Glu Val Leu
1 5

• 222: 20
• 223: 5
• 224: PPT
• 225: rat
• 40: 20
Asp Lys Pro Gln Ser
| 5

• 226: 21
• 227: 1
• 228: PPT
• 229: Artificial Sequence
• 230:
• 231:
• 232:
• 233: Factor Xa recognition site
• 40: 21
Ile Glu Gly Lys

• 234: 22
• 235: 31
• 236: DNA
• 237: Artificial Sequence
• 238:
• 239:
• 240:
• 241: Primer for PCR method
• 40: 21
gatcgaggcgcgttaataaggaacttgcatt

<210> 23
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>
<223> Primer for PCR method
<400> 23
TGAGCTTAACTGGTTTGTGAA

<210> 24
<211> 8
<212> FRT
<213> Artificial Sequence
<220>
<221>
<222>
<223> Factor Xa recognition site containing peptide
<400> 24
Slu Phe Gly Leu Ile Glu Gly Lys
1 5